

NEWS 4 OCT 03 MATHDI removed from STN
 NEWS 5 OCT 04 CA/CAPplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
 NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
 NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAPplus documents for use in third-party analysis and visualization tools
 NEWS 8 OCT 27 Free KWIC format extended in full-text databases
 NEWS 9 OCT 27 DIOGENES content streamlined
 NEWS 10 OCT 27 EPFULL enhanced with additional content
 NEWS 11 NOV 14 CA/CAPplus - Expanded coverage of German academic research
 NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data
 NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT <http://download.cas.org/express/v8.0-Discover/>

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 07:24:12 ON 08 DEC 2005

=> file biosis		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'BIOSIS' ENTERED AT 07:24:22 ON 08 DEC 2005
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FILE COVERS 1969 TO DATE.
 CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 1 December 2005 (20051201/ED)

=> s Tuross/au and Radiocarbon/so and 1995/py
 0 TUROSS/AU
 92 RADIOCARBON/SO
 555878 1995/PY
 L1 0 TUROSS/AU AND RADIOCARBON/SO AND 1995/PY

=> s Hedges/au and radiocarbon/so and 1995/py
 0 HEDGES/AU
 92 RADIOCARBON/SO
 555878 1995/PY

L2 0 HEDGES/AU AND RADIOCARBON/SO AND 1995/PY

```
=> s radiocarbon(w)dating and tooth(w)enamel
    3362 RADIOCARBON
    8 RADIOCARBONS
    3368 RADIOCARBON
        (RADIOCARBON OR RADIOCARBONS)
    7871 DATING
    287 DATINGS
    8029 DATING
        (DATING OR DATINGS)
    1414 RADIOCARBON(W)DATING
    25756 TOOTH
    14 TOOTHS
    28526 TEETH
    9 TEETHS
    46253 TOOTH
        (TOOTH OR TOOTHS OR TEETH OR TEETHS)
    10740 ENAMEL
    61 ENAMELS
    10758 ENAMEL
        (ENAMEL OR ENAMELS)
    905 TOOTH(W)ENAMEL
L3 2 RADIOCARBON(W)DATING AND TOOTH(W)ENAMEL
```

=> d scan

```
L3 2 ANSWERS BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI A contribution to the nutritional history of prehistoric Sardinia (Italy):
Preliminary results of isotopic analyses of bone collagen, bone apatite
and tooth enamel.
IT Methods & Equipment
    DNA analysis: genetic techniques, laboratory techniques; Kiel
    individual acid bath system: laboratory techniques; isotopic analysis:
    laboratory techniques; mass spectrometry: laboratory techniques,
    spectrum analysis techniques; radiocarbon dating:
    applied and field techniques
IT Miscellaneous Descriptors
    Bronze Age; University of South Florida [USF]; agriculture; coastal
    sites; farming; fishing; herding; inland sites; mobility patterns;
    nutritional history; pastoralism; prehistoric societies;
    socioeconomics; subsistence strategies
```

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

```
L3 2 ANSWERS BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI ESR dating of tooth enamel from Aterian levels at
Mugharet el 'Aliya (Tangier, Morocco).
IT Methods & Equipment
    chronometric dating: applied and field techniques; electron spin
    resonance dating [ESR dating]: applied and field techniques;
    radiocarbon dating: applied and field techniques
IT Miscellaneous Descriptors
    Early Uptake model [EU model]; Linear Uptake model [LU model];
    Mousterian-to-Aterian transition; Paleolithic; sand deposition
```

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.55

2.76

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:26:19 ON 08 DEC 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTASMB1637

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'BIOSIS' AT 07:27:32 ON 08 DEC 2005
FILE 'BIOSIS' ENTERED AT 07:27:32 ON 08 DEC 2005
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.55	2.76

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.55	2.76

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FILE COVERS 1907 - 8 Dec 2005 VOL 143 ISS 24
FILE LAST UPDATED: 7 Dec 2005 (20051207/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s tuross/au and radiocarbon/so and 1995/py
      0 TUROSS/AU
      1287 RADIOCARBON/SO
      814609 1995/PY
L4      0 TUROSS/AU AND RADIOCARBON/SO AND 1995/PY

=> s tuross/au and 1995/py
      0 TUROSS/AU
      814609 1995/PY
L5      0 TUROSS/AU AND 1995/PY

=> s radiocarbon(w)dating and enamel
      6175 RADIOCARBON
      10 RADIOCARBONS
      6179 RADIOCARBON
```

(RADIOCARBON OR RADIOCARBONS)
 16930 DATING
 194 DATING
 17026 DATING
 (DATING OR DATING)
 1964 RADIOCARBON(W) DATING
 25019 ENAMEL
 13531 ENAMELS
 29594 ENAMEL
 (ENAMEL OR ENAMELS)
 L6 10 RADIOCARBON(W) DATING AND ENAMEL

=> d scan

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
 CC 53-8 (Mineralogical and Geological Chemistry)
 Section cross-reference(s): 20
 TI ESR dating at Mezmaiskaya Cave, Russia
 ST fauna Neanderthal hominin bone ESR age detn Mezmaiskaya Russia
 IT Caves
 ESR dating
 Radiocarbon dating
 Stalactites
 Stalagmites
 (age determination of faunal remains of Neanderthal hominins from the
 Mezmaiskaya (Russia) Cave, based on ESR data)
 IT Limestone, occurrence
 RL: GOC (Geological or astronomical occurrence); PRP (Properties); OCCU
 (Occurrence)
 (age determination of faunal remains of Neanderthal hominins from the
 Mezmaiskaya (Russia) Cave, based on ESR data)
 IT Groundwaters
 (cave; age determination of faunal remains of Neanderthal hominins from the
 Mezmaiskaya (Russia) Cave, based on ESR data)
 IT Bone
 Skeleton
 Skull
 (human; age determination of faunal remains of Neanderthal hominins from the
 Mezmaiskaya (Russia) Cave, based on ESR data)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
 CC 20-3 (History, Education, and Documentation)
 TI Inverse methods for estimating primary input signals from time-averaged
 isotope profiles
 ST radiocarbon dating tooth enamel paleodiet
 hippopotamus
 IT Diet
 (ancient; inverse methods for estimating primary input signals from
 time-averaged isotope profiles)
 IT Bone
 (archaeol.; inverse methods for estimating primary input signals from
 time-averaged isotope profiles)
 IT Isotopes
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (carbon isotope profiles; inverse methods for estimating primary input
 signals from time-averaged isotope profiles)
 IT Tooth
 (enamel, formation (amelogenesis); inverse methods for estimating
 primary input signals from time-averaged isotope profiles)
 IT Hippopotamus
 Radiocarbon dating
 Tooth
 (inverse methods for estimating primary input signals from time-averaged

isotope profiles)

IT Diet
(paleodiet; inverse methods for estimating primary input signals from time-averaged isotope profiles)

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 20-3 (History, Education, and Documentation)

TI Age estimation from a tooth dated ca. 3,000 B.C. by racemization of amino acid

ST tooth age estn aspartate racemization; ancient man age estn tooth aspartate

IT Anthropology
Bone
Longevity
Racemization
Radiocarbon dating
Tooth
(age estimation from a tooth dated ca. 3,000 B.C. by racemization of amino acid)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(age estimation from a tooth dated ca. 3,000 B.C. by racemization of amino acid)

IT 56-84-8, L-Aspartic acid, biological studies 1783-96-6, D-Aspartic acid
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(age estimation from a tooth dated ca. 3,000 B.C. by racemization of amino acid)

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 20-0 (History, Education, and Documentation)
Section cross-reference(s): 8, 13

TI "Isotope language" of the Alpine Iceman investigated with AMS and MS

ST review archaeol isotope tooth bone intestine Alpine Iceman migration

IT Minerals, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(biominerals; use of stable and radioactive isotopes to elucidate Alpine Iceman)

IT Intestine
(contents of; use of stable and radioactive isotopes to elucidate Alpine Iceman)

IT Tooth
(**enamel**; use of stable and radioactive isotopes to elucidate Alpine Iceman)

IT Behavior
(migratory, human; use of stable and radioactive isotopes to elucidate Alpine Iceman)

IT Archaeology
Bone
Human
Radiocarbon dating
Soils
Waters
(use of stable and radioactive isotopes to elucidate Alpine Iceman)

IT Isotopes
Radionuclides, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(use of stable and radioactive isotopes to elucidate Alpine Iceman)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 20-3 (History, Education, and Documentation)
Section cross-reference(s): 11, 18, 53

TI Environmentally driven dietary adaptations in African mammals
 ST paleontol dietary adaptation grassland mammal evolution carbon isotopic analysis
 IT Embryophyta
 (C3 plant; environmentally riven dietary adaptations in African mammals)
 IT Embryophyta
 (C4 plant; environmentally riven dietary adaptations in African mammals)
 IT Tooth
 (enamel; environmentally riven dietary adaptations in African mammals)
 IT Adaptation, animal
 (environmentally driven dietary adaptations in African mammals)
 IT Diet
 Ecology
 Elephantidae
 Equidae
 Extinction, biological
 Fossils
 Geological age (relative)
 Giraffidae
 Gomphotherium
 Grasslands
 Paleontology
 Photosynthesis, biological
 Radiocarbon age
 Radiocarbon dating
 Stratigraphy
 Suidae
 (environmentally riven dietary adaptations in African mammals)
 IT Isotopes
 RL: OCU (Occurrence, unclassified); OCCU (Occurrence)
 (environmentally riven dietary adaptations in African mammals)

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
 CC 20-3 (History, Education, and Documentation)
 TI Is tooth enamel carbonate a suitable material for radiocarbon dating?
 ST ancient tooth enamel radiocarbon dating
 IT Archaeology
 (radiocarbon dating of tooth enamel carbonate)
 IT Carbonates, miscellaneous
 RL: MSC (Miscellaneous)
 (radiocarbon dating of tooth enamel carbonate)
 IT Tooth
 (enamel, archaeol.; radiocarbon dating of tooth enamel carbonate)
 IT Geological age determination
 (radiocarbon, radiocarbon dating of tooth enamel carbonate)

L6 10 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
 CC 20-0 (History, Education, and Documentation)
 TI Chronometric Dating in Archaeology: A Review
 ST review archaeol radiocarbon dating history
 IT Archaeology
 History
 Radiocarbon dating
 (chronometric dating in archaeol.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> sel 16 cit 6
E1 THROUGH E1 ASSIGNED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.24	20.00

FILE 'SCISEARCH' ENTERED AT 07:30:03 ON 08 DEC 2005
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FILE COVERS 1974 TO 1 Dec 2005 (20051201/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

=> s el
L7 3 "SCHWARCZ H P, 2002, V35, P637,?" /RE
("SCHWARCZ H P, 2002, V35, P637,"? /RE)

=> d scan

L7 3 ANSWERS SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2005:642050 SCISEARCH
GA The Genuine Article (R) Number: 935IE
TI The relationship between balancing reactions and reaction lifetimes: A
consideration of the potassium-argon radiometric method for dating
minerals
CC CHEMISTRY, MULTIDISCIPLINARY; EDUCATION, SCIENTIFIC DISCIPLINES
STP KeyWords Plus (R): ANTARCTIC MARTIAN METEORITES; AROMATIC-HYDROCARBONS
PAHS; CARBONACEOUS CHONDRITES; POLAR ICE; ETHIOPIA; CRYSTAL; ORIGIN;
ANIONS; BOND; KO

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L7 3 ANSWERS SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2005:824197 SCISEARCH
GA The Genuine Article (R) Number: 952YG
TI EPR dating of hydroxyapatite from fossil bones. Transient effects after
gamma and UV irradiation
CC PHYSICS, MULTIDISCIPLINARY
STP KeyWords Plus (R): TOOTH ENAMEL; SINGLE-CRYSTALS; ESR SIGNALS; RESONANCE;
RADIATION; DEFECTS; ENDOR
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L7 3 ANSWERS SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2005:1085759 SCISEARCH
GA The Genuine Article (R) Number: 977FY
TI History and significance of chiral analysis of amino acids in biological
matrices and environment
CC CHEMISTRY, MULTIDISCIPLINARY
STP KeyWords Plus (R): D-ASPARTIC ACID; PERFORMANCE LIQUID-CHROMATOGRAPHY;
CAPILLARY GAS-CHROMATOGRAPHY; D-GLUTAMIC ACID; D-SERINE; D-ALANINE;
RAT-BRAIN; CEREBROSPINAL-FLUID; O-PHTHALDIALDEHYDE; POSTNATAL CHANGES
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ALL ANSWERS HAVE BEEN SCANNED

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
2.22	22.22